

	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	Codon	Amino acid	%	Ratio	
U	UUU	Phe (F)	2	0.4	UCU	Ser (S)	0.9	0.17	UAU	Tyr (Y)	0.4	0.11	UGU	Cys (C)	0.3	0.37	U
	UUC	Phe (F)	2.9	0.6	UCC	Ser (S)	1.5	0.28	UAC	Tyr (Y)	3	0.89	UGC	Cys (C)	0.6	0.63	C
	UUA	Leu (L)	0.7	0.07	UCA	Ser (S)	0.5	0.09	UAA	stop	0.1	0.47	UGA	stop	0.1	0.27	A
	UUG	Leu (L)	0.5	0.05	UCG	Ser (S)	0.8	0.15	UAG	stop	0.1	0.26	UGG	Trp (W)	0.9	1	G
C	CUU	Leu (L)	2.8	0.26	CCU	Pro (P)	0.7	0.15	CAU	His (H)	0.1	0.09	CGU	Arg (R)	0.3	0.05	U
	CUC	Leu (L)	3.9	0.36	CCC	Pro (P)	2.3	0.5	CAC	His (H)	1.4	0.91	CGC	Arg (R)	0.7	0.12	C
	CUA	Leu (L)	0.6	0.05	CCA	Pro (P)	0.2	0.05	CAA	Gln (Q)	0.5	0.22	CGA	Arg (R)	0.2	0.03	A
	CUG	Leu (L)	2.4	0.22	CCG	Pro (P)	1.3	0.29	CAG	Gln (Q)	1.8	0.78	CGG	Arg (R)	0.6	0.11	G
A	AUU	Ile (I)	1.3	0.23	ACU	Thr (T)	0.5	0.12	AAU	Asn (N)	0.4	0.11	AGU	Ser (S)	0.3	0.06	U
	AUC	Ile (I)	1.5	0.26	ACC	Thr (T)	2.3	0.51	AAC	Asn (N)	2.9	0.89	AGC	Ser (S)	1.3	0.25	C
	AUA	Ile (I)	2.9	0.51	ACA	Thr (T)	0.8	0.17	AAA	Lys (K)	2.9	0.39	AGA	Arg (R)	1	0.17	A
	AUG	Met (M)	1.6	1	ACG	Thr (T)	0.9	0.2	AAG	Lys (K)	4.7	0.61	AGG	Arg (R)	3	0.52	G
G	GUU	Val (V)	4.2	0.49	GCU	Ala (A)	0.9	0.12	GAU	Asp (D)	1	0.23	GGU	Gly (G)	1.2	0.16	U
	GUC	Val (V)	1	0.11	GCC	Ala (A)	3.9	0.52	GAC	Asp (D)	3.2	0.77	GGC	Gly (G)	2.6	0.35	C
	GUA	Val (V)	1.9	0.22	GCA	Ala (A)	1.6	0.22	GAA	Glu (E)	2.5	0.29	GGA	Gly (G)	2	0.27	A
	GUG	Val (V)	1.5	0.18	GCG	Ala (A)	1	0.14	GAG	Glu (E)	6.1	0.71	GGG	Gly (G)	1.6	0.22	G
	U				C				A				G				

Table 0.1: Overall codons: 468126, annotation includes stop codon: 1243 / 1243, Inframe stop codon: 1 / 1243